Application No.: 09/115,764

Docket No.: 59479.21601

LISTING OF CLAIMS

The following listing of claims replaces all prior versions and listings of claims in the

application. Changes to the claims are shown with respect to the claims in U.S. Patent No.

5,653,148.

1-3 (canceled).

4. [An assembly as set forth in claim 3] A motion transmitting remote control assembly

(10) for transmitting motion in a curved path, said assembly comprising:

a first (14) and second (16) conduit sections;

a flexible motion transmitting core element (12) movably supported in said conduit

sections;

adjustment components (18, 20) interconnecting said first and second conduit sections

(14. 16) and in telescoping relationship with each other for adjusting the overall length of

said first and second conduit sections (14, 16) wherein one of said adjustment components

[said first telescoping member] is a female member (20) and the other of said adjustment

components [said second telescoping member] is a male member (18) slidably disposed in

said female member (20);

a coil spring (22) [said spring (22) being] supported on said male member (18) and

interacting between said members (18, 20) to bias said members (18, 20) together to shorten

the overall length of said first and second conduit sections (14, 16): and

Application No.: 09/115,764

Docket No.: 59479.21601

a retainer (24) for retaining said spring (22) in compression on one of said members

(18, 20), said members (18, 20) including an abutment (19) for reacting with said spring (22)

in place of said retainer (24) to bias said members (18, 20) together in the direction to shorten

the overall length of said conduit sections (14, 16).

5. An assembly as set forth in claim 4 wherein said male member (18) includes adjustment

teeth (21) therealong and a locking member (19) supported by said female member (20) for

lengaging said teeth (21) in a locked position to prevent relative telescoping movement

between] engaging said teeth (21) in a locked position to prevent relative telescoping movement

between said telescoping members (18 and 20), said abutment being presented by said locking

member (19).

An assembly as set forth in claim 5 wherein said locking member (19) includes a tunnel 6.

(30) extending therethrough for receiving said retainer (24) through said tunnel (30) during

telescoping movement of said male and female members (18 and 20) in the conduit lengthening

direction to allow said abutment on said locking member (19) to react with said spring (22).

7. An assembly as set forth in claim 6 wherein said male and female member (18 and 20) include

complementary keyways (38 and 40) for rotary orientation of said male member (18) relative to said

female member (20).

Application No.: 09/115,764

Docket No.: 59479.21601

8. An assembly as set forth in claim 7 wherein said spring (22) spiraled around said male

member (18) and includes an annular collar (26) reacting axially between said retainer (24) and said

spring (22) and for reacting between said spring (22) and said locking member (19).

9. An assembly as set forth in claim 8 wherein said male member (18) defines an inner end (32)

and said female member (20) presents a bottom end wall (34), said retainer (24) presenting a reaction

surface for reacting with said collar (26) and which reaction surface is axially spaced toward said

bottom end wall (34) from said abutment presented by said locking member (19) when said inner end

(32) of said male member (18) is fully inserted adjacent said bottom end wall (34) of said female

member (20).

10. An assembly as set forth in claim 9 including a detent (27) for holding said locking member

(19) in an intermediate position out of engagement with said teeth (21) while in engagement with said

collar (26).

11. An assembly as set forth in claim 10 wherein said male member (18) includes a sealing length

adjacent said inner end (32) thereof in sliding engagement with said female member (20) and a

reduced cross section defining a spring seat (44) therebetween, said spring (22) reacting between said

spring seat (44) and said collar (26).

12. An assembly as set forth in claim 11 including a seal (46) sealing said sealing length of

said male member (18) and said female member (20).

Application No.: 09/115,764

Docket No.: 59479.21601

13. An assembly as set forth in claim 12 including a pillar (36) extending into said female

member (20) from said bottom end wall (34) thereof, said pillar (36) having a bore therethrough,

said core element extending through said bore in said pillar (36).

14. An assembly as set forth in claim 13 wherein said keyways (38 and 40) extend axially

along the exterior of said pillar (36).

15. An assembly as set forth in claim 13 wherein said male member (18) presents an internal

limit surface (42) for engaging the inner end (32) of said pillar (36) to limit the insertion of said

male member (18) into said female member (20) to define the shortest overall length of said

conduit.

16. An assembly as set forth in claim 13 wherein said locking member (19) is U-shaped with

teeth (23) on the interior of said legs for engaging said teeth (21) on said male member (18) and

hooks (25) at the distal ends of said legs, said detent (27) including recesses in said female

member (20) for engaging said hooks (25) in said intermediate position, said female member

(20) presenting catches (28) for engaging and retaining said hooks (25) to lock said locking

member (19) in said locked position.

17. The motion transmitting remote control assembly (10) of claim 4 wherein said spring

(22) expands axially to bias the components (18, 20) together to shorten the overall length of

said first and second conduit section (14, 16).

Application No.: 09/115,764 Docket No.: 59479.21601

18. A motion transmitting remote control assembly (10) for transmitting motion in a curved path, said assembly comprising:

a first (14) and second (16) conduit sections;

a flexible motion transmitting core element (12) movably supported in said conduit sections;

adjustment components (18, 20) interconnecting said first and second conduit sections (14, 16) and in telescoping relationship with each other for adjusting the overall length of said first and second conduit sections (14, 16) wherein one of said adjustment components includes adjustment teeth (21) and the other of said adjustment components supports a locking member (19) that selectively engages said teeth (21) to prevent relative telescoping movement between said adjustment components (18, 20); and

a coil spring (22) interacting between said adjustment components (18, 20) to bias said components (18, 20) together to shorten the overall length of said first and second conduit sections (14, 16).

19. A motion transmitting remote control assembly (10) for transmitting motion in a curved path, said assembly comprising:

a first (14) and second (16) conduit sections;

a flexible motion transmitting core element (12) movably supported in said conduit sections;

adjustment components (18, 20) interconnecting said first and second conduit sections (14. 16) and in telescoping relationship with each other for adjusting the overall length of said first and second conduit sections (14. 16);

Application No.: 09/115,764 Docket No.: 59479.21601

a coil spring (22) interacting between said adjustment components (18. 20) to bias said components together to shorten the overall length of said first and second conduit sections (14. 16); and

a collar (26) supported on one of said adjustment components (18, 20) for reacting axially between said one of said adjustment components and said spring (22).

20. A motion transmitting remote control assembly (10) for transmitting motion in a curved path, said assembly comprising:

a first (14) and second (16) conduit sections;

a flexible motion transmitting core element (12) movably supported in said conduit sections;

adjustment components (18, 20) interconnecting said first and second conduit sections (14, 16) and in telescoping relationship with each other for adjusting the overall length of said first and second conduit sections (14, 16) wherein said adjustment components include a female member (20) and a male member (18) slidably disposed in said female member (20); and

a coil spring (22) supported on said male member (18) and interacting between said members (18, 20) to bias said members (18, 20) together to shorten the overall length of said first and second conduit sections (14, 16).

21. An assembly as set forth in claim 20 including a retainer (24) disposed on one of said adjustment components (18, 20) for retaining said spring (22) in compression.

Application No.: 09/115,764 Docket No.: 59479.21601

An assembly as set forth in claim 21 wherein said retainer (24) is formed as a projection 22.

on said male member (18).

An assembly as set forth in claim 20 including a locking member (19) supported by said 23.

female member (20) and movable between a locked position to prevent relative telescoping

movement between the adjustment components (18, 20) and an unlocked position to allow

relative telescoping movement between the adjustment components (18, 20).

An assembly as set forth in claim 23 wherein said male member (18) includes

adjustment teeth (21) and said locking member (19) includes locking teeth (23) for selectively

engaging said adjustment teeth (21) when said locking member (19) is moved to said locked

position.

An assembly as set forth in claim 24 wherein said locking member (19) includes at least 25.

one detent (25) and said female member (20) includes at least one recess (27) for receiving said

detent to hold said locking member (19) in said unlocked position while prohibiting relative

movement between said female member (20) and said locking member (19).

An assembly as set forth in claim 25 wherein said female member (20) includes at least one 26.

catch (28) for engaging and retaining said detent (25) when said locking member (19) is moved to said

locked position.

Application No.: 09/115,764

Docket No.: 59479.21601

27. An assembly as set forth in claim 23 wherein said locking member (19) defines an abutment

that reacts with said spring (22) during assembly of said male member (18) into said female member

(20) such that said adjustment components (18, 20) are biased together to shorten the overall length of

said conduit sections (14, 16).

28. An assembly as set forth in claim 20 wherein said male (18) and female (20) members

includes complementary keyways (38, 40) for rotary orientation of the male member (18) relative to

the female member (20).

29. An assembly as set forth in claim 28 including a retainer (24) formed on said male member

(18) for retaining said spring (22) in compression and a locking member (19) supported on said female

member (20), said locking member (19) being selectively engageable with said male member (18) to

prevent relative movement between said male (18) and female (20) members wherein said keyways

align said retainer (24) within said locking member (19) as said male member (18) is inserted into said

female member (20).

30-36 (canceled).

37. A motion transmitting remote control assembly (10) for transmitting motion in a curved path,

said assembly comprising:

a first (14) and second (16) conduit sections;

a flexible motion transmitting core element (12) movably supported in said conduit sections;

Application No.: 09/115,764 PATENT

Docket No.: 59479.21601

adjustment components (18, 20) interconnecting said first and second conduit sections

(14, 16) and in telescoping relationship with each other for adjusting the overall length of said

first and second conduit sections (14. 16);

a pillar (36) extending into said adjustment components (18. 20) and having a bore

therethrough for receiving said core element (12); and

a coil spring (22) interacting between said components (18. 20) to bias said components (18.

20) together to shorten the overall length of said first and second conduit sections (14. 16).

38. An assembly as set forth in claim 37 wherein said adjustment components include a female

member (20) and a male member (18) slidably disposed in said female member (20) including

complementary keyways (38, 40) for rotary orientation of the male member (18) relative to the

female member (20).

39. An assembly as set forth in claim 38 wherein said male member (18) presents an internal

limit surface (42) for engaging an inner end (32) of said pillar (36) to limit insertion of said male

member (18) into said female member (20) to define the shortest overall length of said conduit.

40. An assembly as set forth in claim 37 wherein said adjustment components include a female

member (20) and a male member (18) slidably disposed in said female member (20), said pillar (36)

being slidably disposed in said male member (18).